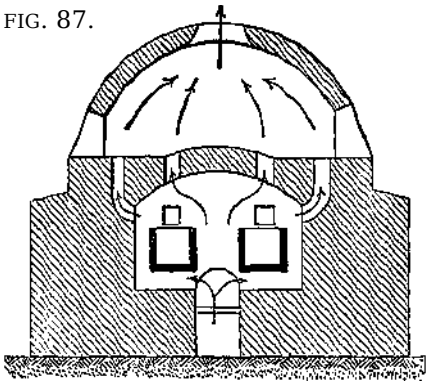
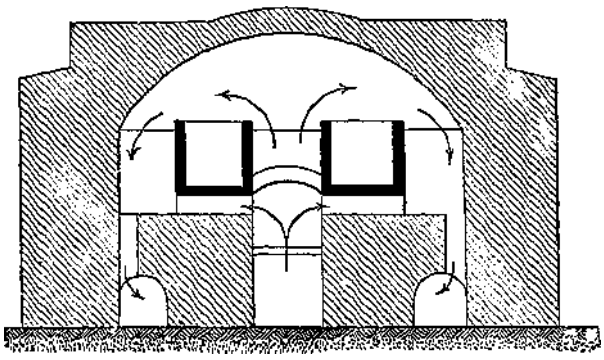
building larger and larger kilns is merely to increase the height and diameter. However, there are limits upon the height, due to the crushing of the lower tiers and the difficulty of securing an even burn throughout the kiln. These difficulties do not appear in the small kilns.)

FIG. 87.



VIII. CEMENTATION FURNACES

Mg. 87 shows an old type of cementation furnace cited in the lectures of Professor Ledebur. The hot gases rising from the



PIG. 88.

firebox are subdivided immediately into ascending currents, which are supposed to envelop and surround the boxes containing the iron bars packed in charcoal. Much better results would be